

**FINAL  
FIELD SAMPLING PLAN FOR  
BARBER RIG DRILLING INVESTIGATION**

**OF THE  
CAMP EDWARDS IMPACT AREA  
GROUNDWATER QUALITY STUDY**

**MASSACHUSETTS MILITARY RESERVATION  
CAPE COD, MASSACHUSETTS**

**Prepared for**

**NATIONAL GUARD BUREAU  
ARLINGTON, VIRGINIA**

**Prepared by**

**OGDEN ENVIRONMENTAL AND ENERGY SERVICES  
239 Littleton Road, Suite 1B  
Westford, Massachusetts 01886**



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# Draft FSP Barber Rig Drilling



## A.4 Field Sampling Plan for Barber Rig Drilling

### A.4.1 Background

A number of wells will be placed in the Impact Area and buffer zone in order to accomplish a number of investigation goals: (1) definition of the stratigraphy of the unconsolidated overburden; (2) evaluation of the water table configuration; and (3) monitoring of groundwater quality. In general, these wells are placed to optimize the achievement of these goals. For example, wells are distributed in space to evaluate the water table and stratigraphy over broad areas. Monitoring wells are located within the estimated zones of contribution of planned groundwater production wells downgradient of the site. Finally, wells are placed in order to provide monitoring of groundwater quality downgradient of potential sources of contamination. The placement of these wells is the result of written comments on the Action Plan by US EPA, MA DEP, and interested parties. The locations were agreed upon in meetings with US EPA, MA DEP, and the US Geological Survey.

This set of monitoring wells will be completed using Barber Rig drilling technology. While it is desirable to use the alternative technology, rotosonic drilling, the potential effect of rotosonic drilling on unexploded ordnance is not clear. This makes its use problematic in areas where UXO may exist. Thus, rotosonic drilling will be restricted to areas outside of the Impact Area and buffer zone.

### A.4.2 Sampling & Analysis Methods

The borings to be completed in the Impact Area and buffer zone will be produced by Barber Rig drilling as described in Section 4 of the Action Plan. The locations for the wells are presented on Figure A.4-1 and include MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-19, MW-25, MW-26, MW-27, MW-28, and MW-29. The separate locations are numbered and the number of well screens to be completed at each location is noted in Figure A.4-1. Depending on the location, well nests (i.e., two or three screens) or single wells are planned. The estimated zones of contributions to the planned production wells are also noted on the figure.

The sampling protocols (i.e., soil screening as well as laboratory analysis of soils and groundwater) to be executed at each of the wells is presented as Table A.4-1. The strategy for sampling of soils and groundwater is defined in the Final Action Plan (see Section 4 and the referenced protocols). Sample collection will be consistent with MMR SOPs, the Ogden Health and Safety Guidelines, Attachment A: Field Guide to High Explosives, and the EPA Standard Guide for Composite Sampling and Field Subsampling for Environmental Waste Management Activities (October 31,

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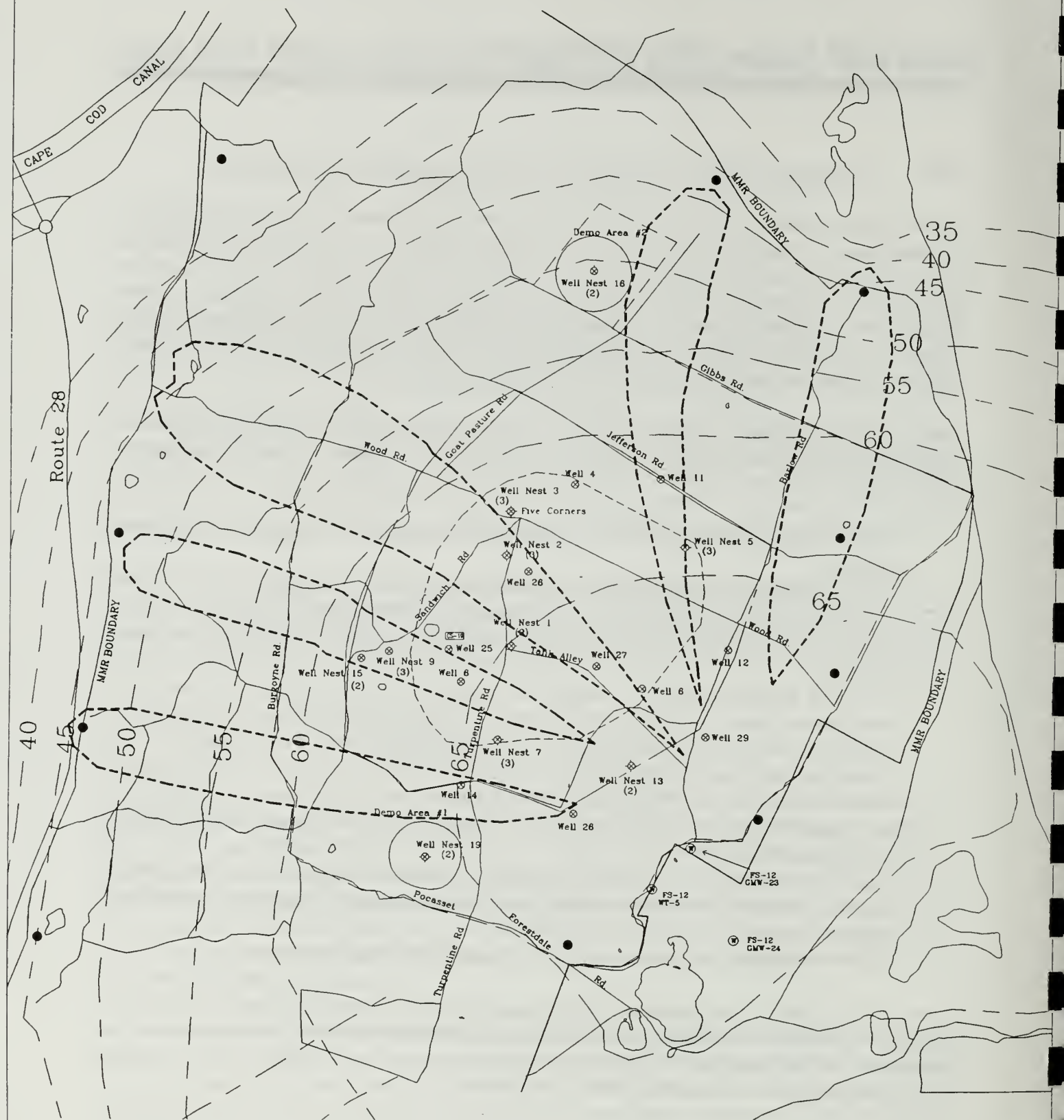
1996).

Prior to the onset of the investigation, the site will be intrusively cleared of UXO to a depth of two feet below grade. Under Sampling Protocol 1, additional clearance will occur from a depth of two feet to 10 feet below grade. Under this procedure, a down-hole magnetometer will be lowered into the hole prior to advancing the auger in two foot intervals. After completion of the next two foot interval, 4" PVC will be inserted into the borehole and the rig will be moved off of the hole prior to magnetic survey of the next interval. The boring location will be considered clear when a depth of ten feet is reached without encountering any magnetic anomalies.

Under Sampling Protocol 2, outlined in Section 4 of the Action Plan, the following activities will occur (every sample with explosives detected by the colorimetric method will also be analyzed by Method 8330):

1. A 0-6" sample will be collected and submitted for explosives, inorganics, and all other analytes;
2. From ten feet below grade until the water table is encountered, a soil sample for chemical analysis and lithologic logging will be collected every ten feet using a split spoon;
3. The 10-12' interval will be FID screened and submitted for explosives, inorganics, and other analytes;
4. The 20-22' interval will be FID screened and submitted for explosives, and inorganics;
5. Each sample below the 20-22' interval will be screened with an FID and sampled for explosives (submitted ON HOLD) and inorganic analysis;
6. The soil samples submitted ON HOLD for explosives will be analyzed only if explosives are detected in the 10-12' or 20-22' sample interval; and
7. Each sample below the 20-22' interval will be sampled for the other analytes only if there is a response on the FID.
8. Based on the results of the 0-6" sample, an 18-24" grab sample may be collected with a hand auger and submitted for explosives, inorganics, and other analytes as directed by the Field Program Manager.
9. 15 feet of coring will be done to confirm that bedrock has been encountered.

From the water table to the completion of the boring, soil will be sampled from the cyclone for lithology. Groundwater samples will be collected at every ten feet during advancement of the borings and will be submitted for laboratory analysis of explosives and VOCs. Wells will be screened as described in Section 4.2.2 of the Action Plan.



Groundwater contours are feet above MSL

- ⊗ Proposed Permanent Investigation Well Locations
- ⊠ Bedrock Boring Locations
- Long Range Water Supply
- ⊙ IRP Investigation Wells Included in the Groundwater Study

Source: USGS Modeling and Analysis, 1994

FIGURE A.4-1  
IMPACT AREA AND BUFFER ZONE  
DRILLING LOCATIONS

**OGDEN**

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Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Subsurface Soil Samples from Borings                                                           |      |           |                |          | Parameters: | Explosives<br>(colorimetric) | Explosives (EPA<br>8330) | Inorganics | Other Analytes: | VOC | SVOC | PCB/Pest. | Herbicide | EDB | MTBE |
|----------------------------------------------------------------------------------------------------|------|-----------|----------------|----------|-------------|------------------------------|--------------------------|------------|-----------------|-----|------|-----------|-----------|-----|------|
| Area                                                                                               | Loc. | Depth     | MMR ID         | Ogden ID | Cont.       | 8oz                          | 8oz                      | 8oz        |                 | 4oz |      | 8 oz.     |           |     | 4oz  |
| X - collect and submit                                                                             |      |           |                |          |             |                              |                          |            |                 |     |      |           |           |     |      |
| @ - sample will be collected with a hand auger after the results from the 0-6" sample are received |      |           |                |          |             |                              |                          |            |                 |     |      |           |           |     |      |
| X - collect and submit ON HOLD                                                                     |      |           |                |          |             |                              |                          |            |                 |     |      |           |           |     |      |
| * - collect and submitted only if there is an FID response.                                        |      |           |                |          |             |                              |                          |            |                 |     |      |           |           |     |      |
| 3                                                                                                  | MW1  | A(0-6")   | 71MS01DXAX01XA | S01DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                                                                                    |      | B(18-24") | 71MS01DXBX01XA | S01DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                                                                                    |      | C(10-12") | 71MS01DXCX01XA | S01DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                                                                                    |      | D(20-22") | 71MS01DXDX01XA | S01DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | E         | 71MS01DXEX01XA | S01DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | F         | 71MS01DXFX01XA | S01DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | G         | 71MS01DXGX01XA | S01DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | H         | 71MS01DXHX01XA | S01DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | I         | 71MS01DXIX01XA | S01DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | J         | 71MS01DXJX01XA | S01DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | K         | 71MS01DXKX01XA | S01DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | L         | 71MS01DXLX01XA | S01DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | M         | 71MS01DXMX01XA | S01DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
| 2                                                                                                  | MW2  | A(0-6")   | 71MS02DXAX01XA | S02DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                                                                                    |      | B(18-24") | 71MS02DXBX01XA | S02DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                                                                                    |      | C(10-12") | 71MS02DXCX01XA | S02DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                                                                                    |      | D(20-22") | 71MS02DXDX01XA | S02DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | E         | 71MS02DXEX01XA | S02DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | F         | 71MS02DXFX01XA | S02DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | G         | 71MS02DXGX01XA | S02DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | H         | 71MS02DXHX01XA | S02DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | I         | 71MS02DXIX01XA | S02DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | J         | 71MS02DXJX01XA | S02DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | K         | 71MS02DXKX01XA | S02DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | L         | 71MS02DXLX01XA | S02DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | M         | 71MS02DXMX01XA | S02DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
| 1                                                                                                  | MW3  | A(0-6")   | 71MS03DXAX01XA | S03DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                                                                                    |      | B(18-24") | 71MS03DXBX01XA | S03DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                                                                                    |      | C(10-12") | 71MS03DXCX01XA | S03DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                                                                                    |      | D(20-22") | 71MS03DXDX01XA | S03DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | E         | 71MS03DXEX01XA | S03DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | F         | 71MS03DXFX01XA | S03DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | G         | 71MS03DXGX01XA | S03DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | H         | 71MS03DXHX01XA | S03DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | I         | 71MS03DXIX01XA | S03DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | J         | 71MS03DXJX01XA | S03DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | K         | 71MS03DXKX01XA | S03DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | L         | 71MS03DXLX01XA | S03DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                                                                                    |      | M         | 71MS03DXMX01XA | S03DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Subsurface Soil Samples from Borings |      |           |                |          | Parameters: | Explosives<br>(colorimetric) | Explosives (EPA<br>8330) | Inorganics | Other Analytes: | VOC | SVOC | PCB/Pest. | Herbicide | EDB | MTBE |
|------------------------------------------|------|-----------|----------------|----------|-------------|------------------------------|--------------------------|------------|-----------------|-----|------|-----------|-----------|-----|------|
| Area                                     | Loc. | Depth     | MMR ID         | Ogden ID | Cont.       | 8oz                          | 8oz                      | 8oz        |                 | 4oz |      | 8 oz.     |           |     |      |
| 9                                        | MW4  | A(0-6")   | 71MS04DXAX01XA | S04DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS04DXBX01XA | S04DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS04DXCX01XA | S04DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS04DXDX01XA | S04DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | E         | 71MS04DXEX01XA | S04DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | F         | 71MS04DXFX01XA | S04DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | G         | 71MS04DXGX01XA | S04DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | H         | 71MS04DXHX01XA | S04DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | I         | 71MS04DXIX01XA | S04DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | J         | 71MS04DXJX01XA | S04DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | K         | 71MS04DXKX01XA | S04DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | L         | 71MS04DXLX01XA | S04DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | M         | 71MS04DXMX01XA | S04DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
| 10                                       | MW5  | A(0-6")   | 71MS05DXAX01XA | S05DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS05DXBX01XA | S05DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS05DXCX01XA | S05DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS05DXDX01XA | S05DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | E         | 71MS05DXEX01XA | S05DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | F         | 71MS05DXFX01XA | S05DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | G         | 71MS05DXGX01XA | S05DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | H         | 71MS05DXHX01XA | S05DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | I         | 71MS05DXIX01XA | S05DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | J         | 71MS05DXJX01XA | S05DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | K         | 71MS05DXKX01XA | S05DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | L         | 71MS05DXLX01XA | S05DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | M         | 71MS05DXMX01XA | S05DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          | MW6  | A(0-6")   | 71MS06DXAX01XA | S06DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS06DXBX01XA | S06DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS06DXCX01XA | S06DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS06DXDX01XA | S06DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | E         | 71MS06DXEX01XA | S06DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | F         | 71MS06DXFX01XA | S06DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | G         | 71MS06DXGX01XA | S06DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | H         | 71MS06DXHX01XA | S06DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | I         | 71MS06DXIX01XA | S06DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | J         | 71MS06DXJX01XA | S06DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | K         | 71MS06DXKX01XA | S06DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | L         | 71MS06DXLX01XA | S06DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | M         | 71MS06DXMX01XA | S06DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Subsurface Soil Samples from Borings |      |           |                |          | Parameters: | Explosives<br>(colorimetric) | Explosives (EPA<br>8330) | Inorganics | Other Analytes: | VOC | SVOC  | PCB/Pest. | Herbicide | EDB | MTBE |
|------------------------------------------|------|-----------|----------------|----------|-------------|------------------------------|--------------------------|------------|-----------------|-----|-------|-----------|-----------|-----|------|
| Area                                     | Loc. | Depth     | MMR ID         | Ogden ID | Cont.       | 8oz                          | 8oz                      | 8oz        |                 | 4oz | 8 oz. |           | 4oz       |     |      |
| 11                                       | MW7  | A(0-6")   | 71MS07DXAX01XA | S07DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS07DXBX01XA | S07DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS07DXCX01XA | S07DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS07DXDX01XA | S07DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS07DXEX01XA | S07DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS07DXFX01XA | S07DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS07DXGX01XA | S07DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS07DXHX01XA | S07DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS07DXIX01XA | S07DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS07DXJX01XA | S07DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS07DXKX01XA | S07DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS07DXLX01XA | S07DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS07DXMX01XA | S07DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          | MW8  | A(0-6")   | 71MS08DXAX01XA | S08DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS08DXBX01XA | S08DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS08DXCX01XA | S08DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS08DXDX01XA | S08DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS08DXEX01XA | S08DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS08DXFX01XA | S08DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS08DXGX01XA | S08DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS08DXHX01XA | S08DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS08DXIX01XA | S08DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS08DXJX01XA | S08DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS08DXKX01XA | S08DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS08DXLX01XA | S08DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS08DXMX01XA | S08DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
| 14                                       | MW9  | A(0-6")   | 71MS09DXAX01XA | S09DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS09DXBX01XA | S09DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS09DXCX01XA | S09DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS09DXDX01XA | S09DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS09DXEX01XA | S09DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS09DXFX01XA | S09DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS09DXGX01XA | S09DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS09DXHX01XA | S09DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS09DXIX01XA | S09DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS09DXJX01XA | S09DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS09DXKX01XA | S09DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS09DXLX01XA | S09DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS09DXMX01XA | S09DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Subsurface Soil Samples from Borings |      |           |                |          | Parameters: | Explosives<br>(colorimetric) | Explosives (EPA<br>8330) | Inorganics | Other Analytes: | VOC | SVOC | PCB/Pest. | Herbicide | EDB | MTBE |
|------------------------------------------|------|-----------|----------------|----------|-------------|------------------------------|--------------------------|------------|-----------------|-----|------|-----------|-----------|-----|------|
| Area                                     | Loc. | Depth     | MMR ID         | Ogden ID | Cont.       | 8oz                          | 8oz                      | 8oz        |                 | 4oz |      | 8 oz.     |           |     |      |
|                                          | MW11 | A(0-6")   | 71MS11DXAX01XA | S11DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS11DXBX01XA | S11DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                          |      | C(10-12") | 71MS11DXCX01XA | S11DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | D(20-22") | 71MS11DXDX01XA | S11DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | E         | 71MS11DXEX01XA | S11DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | F         | 71MS11DXFX01XA | S11DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | G         | 71MS11DXGX01XA | S11DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | H         | 71MS11DXHX01XA | S11DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | I         | 71MS11DXIX01XA | S11DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | J         | 71MS11DXJX01XA | S11DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | K         | 71MS11DXKX01XA | S11DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | L         | 71MS11DXLX01XA | S11DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | M         | 71MS11DXMX01XA | S11DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          | MW12 | A(0-6")   | 71MS12DXAX01XA | S12DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS12DXBX01XA | S12DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                          |      | C(10-12") | 71MS12DXCX01XA | S12DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | D(20-22") | 71MS12DXDX01XA | S12DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | E         | 71MS12DXEX01XA | S12DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | F         | 71MS12DXFX01XA | S12DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | G         | 71MS12DXGX01XA | S12DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | H         | 71MS12DXHX01XA | S12DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | I         | 71MS12DXIX01XA | S12DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | J         | 71MS12DXJX01XA | S12DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | K         | 71MS12DXKX01XA | S12DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | L         | 71MS12DXLX01XA | S12DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | M         | 71MS12DXMX01XA | S12DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          | MW13 | A(0-6")   | 71MS13DXAX01XA | S13DAA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS13DXBX01XA | S13DBA   |             | @                            |                          | @          |                 | @   | @    | @         | @         | @   | @    |
|                                          |      | C(10-12") | 71MS13DXCX01XA | S13DCA   |             | X                            |                          | X          |                 | X   | X    | X         | X         | X   | X    |
|                                          |      | D(20-22") | 71MS13DXDX01XA | S13DDA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | E         | 71MS13DXEX01XA | S13DEA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | F         | 71MS13DXFX01XA | S13DFA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | G         | 71MS13DXGX01XA | S13DGA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | H         | 71MS13DXHX01XA | S13DHA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | I         | 71MS13DXIX01XA | S13DIA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | J         | 71MS13DXJX01XA | S13DJA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | K         | 71MS13DXKX01XA | S13DKA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | L         | 71MS13DXLX01XA | S13DLA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |
|                                          |      | M         | 71MS13DXMX01XA | S13DMA   |             | X                            |                          | X          |                 | *   | *    | *         | *         | *   | *    |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Subsurface Soil Samples from Borings |      |           |                |          | Parameters: | Explosives<br>(colorimetric) | Explosives (EPA<br>8330) | Inorganics | Other Analytes: | VOC | SVOC  | PCB/Pest. | Herbicide | EDB | MTBE |
|------------------------------------------|------|-----------|----------------|----------|-------------|------------------------------|--------------------------|------------|-----------------|-----|-------|-----------|-----------|-----|------|
| Area                                     | Loc. | Depth     | MMR ID         | Ogden ID | Cont.       | 8oz                          | 8oz                      | 8oz        |                 | 4oz | 8 oz. |           | 4oz       |     |      |
|                                          | MW14 | A(0-6")   | 71MS14DXAX01XA | S14DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS14DXBX01XA | S14DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS14DXCX01XA | S14DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS14DXDX01XA | S14DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS14DXEX01XA | S14DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS14DXFX01XA | S14DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS14DXGX01XA | S14DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS14DXHX01XA | S14DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS14DXIX01XA | S14DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS14DXJX01XA | S14DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS14DXKX01XA | S14DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS14DXLX01XA | S14DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS14DXMX01XA | S14DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          | MW15 | A(0-6")   | 71MS15DXAX01XA | S15DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS15DXBX01XA | S15DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS15DXCX01XA | S15DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS15DXDX01XA | S15DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS15DXEX01XA | S15DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS15DXFX01XA | S15DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS15DXGX01XA | S15DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS15DXHX01XA | S15DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS15DXIX01XA | S15DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS15DXJX01XA | S15DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS15DXKX01XA | S15DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS15DXLX01XA | S15DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS15DXMX01XA | S15DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
| 13                                       | MW16 | A(0-6")   | 71MS16DXAX01XA | S16DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS16DXBX01XA | S16DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS16DXCX01XA | S16DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS16DXDX01XA | S16DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS16DXEX01XA | S16DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS16DXFX01XA | S16DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS16DXGX01XA | S16DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS16DXHX01XA | S16DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS16DXIX01XA | S16DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS16DXJX01XA | S16DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS16DXKX01XA | S16DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS16DXLX01XA | S16DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS16DXMX01XA | S16DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Subsurface Soil Samples from Borings |      |           |                |          | Parameters: | Explosives<br>(colorimetric) | Explosives (EPA<br>8330) | Inorganics | Other Analytes: | VOC | SVOC  | PCB/Pest. | Herbicide | EDB | MTBE |
|------------------------------------------|------|-----------|----------------|----------|-------------|------------------------------|--------------------------|------------|-----------------|-----|-------|-----------|-----------|-----|------|
| Area                                     | Loc. | Depth     | MMR ID         | Ogden ID | Cont.       | 8oz                          | 8oz                      | 8oz        |                 | 4oz | 8 oz. | 4oz       |           |     |      |
| 12                                       | MW19 | A(0-6")   | 71MS19DXAX01XA | S19DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS19DXBX01XA | S19DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS19DXCX01XA | S19DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS19DXDX01XA | S19DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS19DXEX01XA | S19DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS19DXFX01XA | S19DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS19DXGX01XA | S19DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS19DXHX01XA | S19DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS19DXIX01XA | S19DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS19DXJX01XA | S19DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS19DXKX01XA | S19DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS19DXLX01XA | S19DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS19DXMX01XA | S19DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          | MW25 | A(0-6")   | 71MS25DXAX01XA | S25DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS25DXAX01XA | S25DAA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS25DXCX01XA | S25DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS25DXDX01XA | S25DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS25DXEX01XA | S25DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS25DXFX01XA | S25DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS25DXGX01XA | S25DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS25DXHX01XA | S25DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS25DXIX01XA | S25DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS25DXJX01XA | S25DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS25DXKX01XA | S25DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS25DXLX01XA | S25DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS25DXMX01XA | S25DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
| 2                                        | MW26 | A(0-6")   | 71MS26DXAX01XA | S26DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS26DXAX01XA | S26DAA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS26DXCX01XA | S26DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS26DXDX01XA | S26DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS26DXEX01XA | S26DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS26DXFX01XA | S26DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS26DXGX01XA | S26DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS26DXHX01XA | S26DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS26DXIX01XA | S26DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS26DXJX01XA | S26DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS26DXKX01XA | S26DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS26DXLX01XA | S26DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS26DXMX01XA | S26DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Subsurface Soil Samples from Borings |      |           |                |          | Parameters: | Explosives<br>(colorimetric) | Explosives (EPA<br>8330) | Inorganics | Other Analytes: | VOC | SVOC  | PCB/Pest. | Herbicide | EDB | MTBE |
|------------------------------------------|------|-----------|----------------|----------|-------------|------------------------------|--------------------------|------------|-----------------|-----|-------|-----------|-----------|-----|------|
| Area                                     | Loc. | Depth     | MMR ID         | Ogden ID | Cont.       | 8oz                          | 8oz                      | 8oz        |                 | 4oz | 8 oz. |           | 4oz       |     |      |
| 4                                        | MW27 | A(0-6")   | 71MS27DXAX01XA | S27DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS27DXBX01XA | S27DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS27DXCX01XA | S27DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS27DXDX01XA | S27DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS27DXEX01XA | S27DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS27DXFX01XA | S27DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS27DXGX01XA | S27DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS27DXHX01XA | S27DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS27DXIX01XA | S27DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS27DXJX01XA | S27DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS27DXKX01XA | S27DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS27DXLX01XA | S27DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS27DXMX01XA | S27DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          | MW28 | A(0-6")   | 71MS28DXAX01XA | S28DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS28DXBX01XA | S28DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS28DXCX01XA | S28DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS28DXDX01XA | S28DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS28DXEX01XA | S28DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS28DXFX01XA | S28DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS28DXGX01XA | S28DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS28DXHX01XA | S28DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS28DXIX01XA | S28DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS28DXJX01XA | S28DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS28DXKX01XA | S28DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS28DXLX01XA | S28DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS28DXMX01XA | S28DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          | MW29 | A(0-6")   | 71MS29DXAX01XA | S29DAA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | B(18-24") | 71MS29DXBX01XA | S29DBA   |             | @                            |                          | @          |                 | @   | @     | @         | @         | @   | @    |
|                                          |      | C(10-12') | 71MS29DXCX01XA | S29DCA   |             | X                            |                          | X          |                 | X   | X     | X         | X         | X   | X    |
|                                          |      | D(20-22') | 71MS29DXDX01XA | S29DDA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | E         | 71MS29DXEX01XA | S29DEA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | F         | 71MS29DXFX01XA | S29DFA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | G         | 71MS29DXGX01XA | S29DGA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | H         | 71MS29DXHX01XA | S29DHA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | I         | 71MS29DXIX01XA | S29DIA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | J         | 71MS29DXJX01XA | S29DJA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | K         | 71MS29DXKX01XA | S29DKA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | L         | 71MS29DXLX01XA | S29DLA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |
|                                          |      | M         | 71MS29DXMX01XA | S29DMA   |             | X                            |                          | X          |                 | *   | *     | *         | *         | *   | *    |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Groundwater Samples from Borings |      |       |                          |             | Parameters:    | Explosives<br>(colorimetric) | Explosives<br>(EPA 8330) | Inorganics | Other<br>Analytes: | VOC | SVOC | PCB/Pest. | Herbicide | EDB | MTBE |
|--------------------------------------|------|-------|--------------------------|-------------|----------------|------------------------------|--------------------------|------------|--------------------|-----|------|-----------|-----------|-----|------|
| Area                                 | Loc. | Depth | Sample<br>Identification | Ogden<br>ID | Cont:<br>Pres: | 250mL                        |                          |            |                    |     |      |           |           |     |      |
| 3                                    | MW1  | A     | 71GB01DXAX01XA           | G01DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB01DXBX01XA           | G01DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB01DXCX01XA           | G01DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB01DXDX01XA           | G01DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB01DXEX01XA           | G01DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB01DXFX01XA           | G01DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB01DXGX01XA           | G01DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB01DXHX01XA           | G01DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB01DXIX01XA           | G01DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB01DXJX01XA           | G01DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB01DXKX01XA           | G01DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB01DXLX01XA           | G01DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB01DXMX01XA           | G01DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB01DXNA01XA           | G01DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB01DXOB01XA           | G01DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
| 2                                    | MW2  | A     | 71GB02DXAX01XA           | G02DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB02DXBX01XA           | G02DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB02DXCX01XA           | G02DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB02DXDX01XA           | G02DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB02DXEX01XA           | G02DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB02DXFX01XA           | G02DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB02DXGX01XA           | G02DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB02DXHX01XA           | G02DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB02DXIX01XA           | G02DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB02DXJX01XA           | G02DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB02DXKX01XA           | G02DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB02DXLX01XA           | G02DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB02DXMX01XA           | G02DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB02DXNA01XA           | G02DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB02DXOB01XA           | G02DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
| 1                                    | MW3  | A     | 71GB03DXAX01XA           | G03DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB03DXBX01XA           | G03DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB03DXCX01XA           | G03DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB03DXDX01XA           | G03DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB03DXEX01XA           | G03DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB03DXFX01XA           | G03DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB03DXGX01XA           | G03DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB03DXHX01XA           | G03DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB03DXIX01XA           | G03DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB03DXJX01XA           | G03DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB03DXKX01XA           | G03DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB03DXLX01XA           | G03DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB03DXMX01XA           | G03DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB03DXNA01XA           | G03DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB03DXOB01XA           | G03DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Groundwater Samples from Borings |      |       |                          |             | Parameters:    | Explosives<br>(colorimetric) | Explosives<br>(EPA 8330) | Inorganics | Other<br>Analytes: | VOC | SVOC | PCB/Pest. | Herbicide | EDB | MTBE |
|--------------------------------------|------|-------|--------------------------|-------------|----------------|------------------------------|--------------------------|------------|--------------------|-----|------|-----------|-----------|-----|------|
| Area                                 | Loc. | Depth | Sample<br>Identification | Ogden<br>ID | Cont:<br>Pres: | 250mL                        |                          |            |                    |     |      |           |           |     |      |
| 10                                   | MW5  | A     | 71GB05DXAX01XA           | G05DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB05DXBX01XA           | G05DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB05DXCX01XA           | G05DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB05DXDX01XA           | G05DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB05DXEX01XA           | G05DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB05DXFX01XA           | G05DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB05DXGX01XA           | G05DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB05DXHX01XA           | G05DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB05DXIX01XA           | G05DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB05DXJX01XA           | G05DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB05DXKX01XA           | G05DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB05DXLX01XA           | G05DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB05DXMX01XA           | G05DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB05DXNA01XA           | G05DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB05DXOB01XA           | G05DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
| 11                                   | MW7  | A     | 71GB07DXAX01XA           | G07DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB07DXBX01XA           | G07DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB07DXCX01XA           | G07DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB07DXDX01XA           | G07DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB07DXEX01XA           | G07DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB07DXFX01XA           | G07DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB07DXGX01XA           | G07DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB07DXHX01XA           | G07DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB07DXIX01XA           | G07DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB07DXJX01XA           | G07DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB07DXKX01XA           | G07DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB07DXLX01XA           | G07DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB07DXMX01XA           | G07DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB07DXNA01XA           | G07DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB07DXOB01XA           | G07DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      | MW1  | A     | 71GB13DXAX01XA           | G13DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB13DXBX01XA           | G13DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB13DXCX01XA           | G13DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB13DXDX01XA           | G13DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB13DXEX01XA           | G13DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB13DXFX01XA           | G13DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB13DXGX01XA           | G13DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB13DXHX01XA           | G13DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB13DXIX01XA           | G13DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB13DXJX01XA           | G13DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB13DXKX01XA           | G13DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB13DXLX01XA           | G13DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB13DXMX01XA           | G13DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB13DXNA01XA           | G13DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB13DXOB01XA           | G13DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |

Table A.4-1: Samples to Be Collected from Barber Rig Locations

| MMR Groundwater Samples from Borings |      |       |                          |             | Parameters:    | Explosives<br>(colorimetric) | Explosives<br>(EPA 8330) | Inorganics | Other<br>Analytes: | VOC | SVOC | PCB/Pest. | Herbicide | EDB | MTBE |
|--------------------------------------|------|-------|--------------------------|-------------|----------------|------------------------------|--------------------------|------------|--------------------|-----|------|-----------|-----------|-----|------|
| Area                                 | Loc. | Depth | Sample<br>Identification | Ogden<br>ID | Cont:<br>Pres: | 250mL                        |                          |            |                    |     |      |           |           |     |      |
|                                      | MW1  | A     | 71GB15DXAX01XA           | G15DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB15DXBX01XA           | G15DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB15DXCX01XA           | G15DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB15DXDX01XA           | G15DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB15DXEX01XA           | G15DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB15DXFX01XA           | G15DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB15DXGX01XA           | G15DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB15DXHX01XA           | G15DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB15DXIX01XA           | G15DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB15DXJX01XA           | G15DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB15DXKX01XA           | G15DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB15DXLX01XA           | G15DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB15DXMX01XA           | G15DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB15DXNA01XA           | G15DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB15DXOB01XA           | G15DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
| 13                                   | MW1  | A     | 71GB16DXAX01XA           | G16DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB16DXBX01XA           | G16DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB16DXCX01XA           | G16DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB16DXDX01XA           | G16DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB16DXEX01XA           | G16DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB16DXFX01XA           | G16DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB16DXGX01XA           | G16DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB16DXHX01XA           | G16DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB16DXIX01XA           | G16DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB16DXJX01XA           | G16DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB16DXKX01XA           | G16DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB16DXLX01XA           | G16DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB16DXMX01XA           | G16DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB16DXNA01XA           | G16DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB16DXOB01XA           | G16DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      | MW1  | A     | 71GB19DXAX01XA           | G19DAA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | B     | 71GB19DXBX01XA           | G19DBA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | C     | 71GB19DXCX01XA           | G19DCA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | D     | 71GB19DXDX01XA           | G19DDA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | E     | 71GB19DXEX01XA           | G19DEA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | F     | 71GB19DXFX01XA           | G19DFA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | G     | 71GB19DXGX01XA           | G19DGA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | H     | 71GB19DXHX01XA           | G19DHA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | I     | 71GB19DXIX01XA           | G19DIA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | J     | 71GB19DXJX01XA           | G19DJA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | K     | 71GB19DXKX01XA           | G19DKA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | L     | 71GB19DXLX01XA           | G19DLA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | M     | 71GB19DXMX01XA           | G19DMA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | N     | 71GB19DXNA01XA           | G19DNA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |
|                                      |      | O     | 71GB19DXOB01XA           | G19DOA      |                | X                            |                          |            |                    | X   |      |           |           |     |      |

Attachment A: Field Guide to High Explosives

Any substance encountered during sampling activities which differs in any way from the natural material will be treated as a dangerous substance, carefully removed from the sample and set aside.

| Name              | Properties                                                                                         | Stability                                                                                                                                       |
|-------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| TNT               | usually resembles light brown sugar, when pure it is a crystalline powder of very pale straw color | one of the most stable of high explosives, quite insensitive to blows or friction, but can be detonated by severe impact between metal surfaces |
| Ammonium Picrate  | orange-yellow crystalline solid                                                                    | the least sensitive to shock                                                                                                                    |
| Picric Acid       | lemon-yellow crystalline solid                                                                     | very sensitive to blows or friction - forms explosive salts, extremely sensitive to blows or friction                                           |
| Tetryl            | fine yellow crystalline powder                                                                     | sensitive to blows or friction                                                                                                                  |
| Mercury Fulminate | white to faint yellowish brown or grayish tint crystalline solid                                   | sensitive to blows or friction                                                                                                                  |
| Amatol            | plastic mass resembling wet brown sugar                                                            |                                                                                                                                                 |

Other compounds with no available description which may be encountered and should be treated as a dangerous substance:

|            |                  |                   |
|------------|------------------|-------------------|
| Lead Azide | Composition B    | Composition A     |
| PETN       | Composition C3   | Pentolite (50/50) |
| HMX        | Composition C4   | PBX               |
| RDX        | Octol            | Tetrytol          |
| Ednatol    | Tracer Compound  | Black Powder      |
| Magnesium  | Lead Styphuate   | Ammonium Nitrate  |
| Propellant | White Phosphorus |                   |



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